



**MEXTECH**<sup>TM</sup>  
INSTRUMENTS OF TOMORROW



## DIT-51 High Voltage Insulation Resistance Tester



### Product Function

Suitable for insulation resistance testing of cable, motor, generator, transformer, mutual inductor, high voltage switch, arrester and other large equipment. Insulation resistance measurement (IR); polarization index measurement (PI); absorption ratio (DAR); 4 kinds of filter chose (10S、20S、30S、40S) Voltage measurement(V); capacity measurement (uF) ; Leakage current measurement (nA)

### Product Features

1. Automatic discharge function, instantly release the high voltage of the measured object, and display the discharge voltage.
2. Quickly charge for capacitive load, especially suitable for cable insulation resistance measurement.
3. Button, band rotary knob and touch color screen combination, make the function test convenient and easily, query record operations simple.
4. Various display content: insulation resistance value, output voltage, leakage current, test timing, test date and time (display hour, minute, second), battery power.
5. Double shell structure, firm and durable, protection grade IP65
6. Two power supply mode of rechargeable lithium battery pack and power adapter.
7. Automatically store 1000 groups of real-time test data with test date, time and timing. The recorded data can be uploaded to the computer by USB communication cable for data statistical analysis.

### Insulation Resistance Measurement Accuracy

Rate Voltage		250v	500v	1000v	2500v	5000 v
Range and Accuracy	±5% - ±20%	50G Ω	100G Ω	200 GΩ	500 GΩ	1 TΩ

## Technical Specifications

Model	DIT-51
Rated Voltage	250v, 500v, 1000v, 2500v, 5000v
Output Voltage Accuracy	(5%~0%) ±10V
Insulation Resistance Range	1MΩ~1TΩ
Output Short Circuit Current	≥5mA
Power Supply	Rechargeable lithium battery pack, charge AC 220V
Filter	10S、20S、30S、40S (4 choice)
Voltage Measurement	Range: AC/DC 30V~1000V; Accuracy: ± (3%+3V); Resolution: 1V
Current Measurement	Range: 0.00nA~6.00mA; Accuracy: ± (5%+0.2nA); Resolution: 1pA
Capacitance Measurement	Range: 10nF~25uF; Accuracy: ± (10%+5nF); Resolution: 1nF
Timing Range	0s~9999s
Storage Function	Automatically store the real-time test data with test date, time and timing, total of 1000 groups
Upload Function	Upload the stored data to computer with USB communication cable.
Battery Voltage	Battery voltage symbol display, when battery voltage low will remind to replace the battery
Auto Shut Down	After 15 minutes start up will shut down automatically without any operation
Meter Dimension	280mm×260mm×160mm
Meter Weight	4400g (include battery)
Test Wire	Red color high voltage test wire 1 pcs (with alligator clip 1PCS and hook 1PCS), green color testwire 1PCS, black color test wire 1PCS
Working Environment	-10°C~50°C ; 80%rh
Insulation Resistance	50MΩ (1000v) (between the test circuit and shell)
Withstand Voltage	AC 3Kv 50Hz 1min (between the test circuit and shell)
Suitable Safety Standard	IEC61010-1, IEC61326-1
Accessories	Host: 1PCS, high voltage test wire: 1PCS, Test wire (green): 1PCS; Test wire (black): 1PCS; Alligator clip: 1PCS; Hook 1PCS; USB communication cable 1PCS; Software CD: 1COPY; Tool bag: 1PCS